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## FJL6920

## High Voltage Color Display Horizontal Deflection Output

- High Collector-Base Breakdown Voltage : BV<sub>CBO</sub> = 1700V
- Low Saturation Voltage : V<sub>CE</sub>(sat) = 3V (Max.)
- For Color Monitor



1.Base 2.Collector 3.Emitter

## NPN Triple Diffused Planar Silicon Transistor

### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Rating	Units V	
V <sub>CBO</sub>	Collector-Base Voltage	1700		
V <sub>CEO</sub>	Collector-Emitter Voltage	800	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
I <sub>C</sub>	Collector Current (DC)	20	A	
I <sub>CP</sub> *	Collector Current (Pulse)	30	A	
P <sub>C</sub>	Collector Dissipation	200	W	
TJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C	

\* Pulse Test: PW=300µs, duty Cycle=2% Pulsed

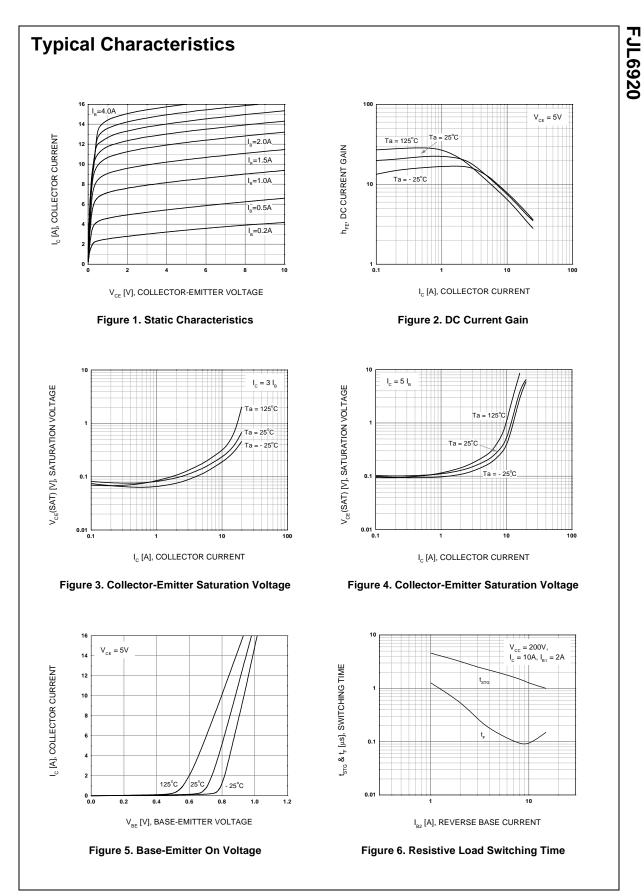
#### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
I <sub>CES</sub>	Collector Cut-off Current	V <sub>CB</sub> =1400V, R <sub>BE</sub> =0			1	mA
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> =4V, I <sub>C</sub> =0			1	mA
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =500μA, I <sub>E</sub> =0	1700			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =5mA, I <sub>B</sub> =0	800			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> =500μA, I <sub>C</sub> =0	6			V
h <sub>FE1</sub> h <sub>FE2</sub>	DC Current Gain	V <sub>CE</sub> =5V, I <sub>C</sub> =1A V <sub>CE</sub> =5V, I <sub>C</sub> =11A	8 5.5		8.5	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> =11A, I <sub>B</sub> =2.75A			3	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> =11A, I <sub>B</sub> =2.75A			1.5	V
t <sub>STG</sub> *	Storage Time	$V_{CC}$ =200V, I <sub>C</sub> =10A, R <sub>L</sub> =20 $\Omega$			3	μs
t <sub>F</sub> *	Fall Time	I <sub>B1</sub> =2.0A, I <sub>B2</sub> = - 4.0A		0.15	0.2	μs

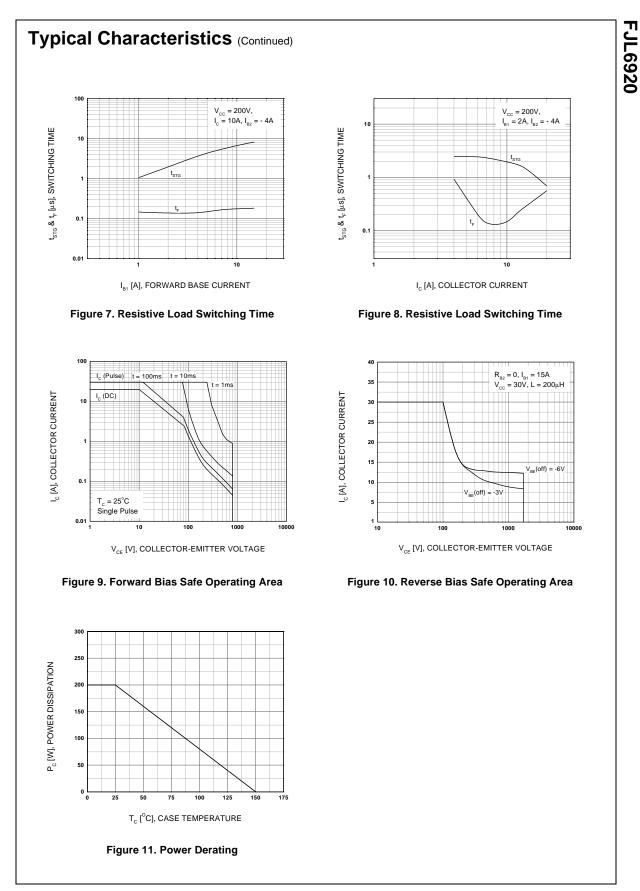
\* Pulse Test: PW=20 $\mu$ s, duty Cycle=1% Pulsed

### Thermal Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Тур	Max	Units
$R_{\theta j C}$	Thermal Resistance, Junction to Case		0.625	°C/W

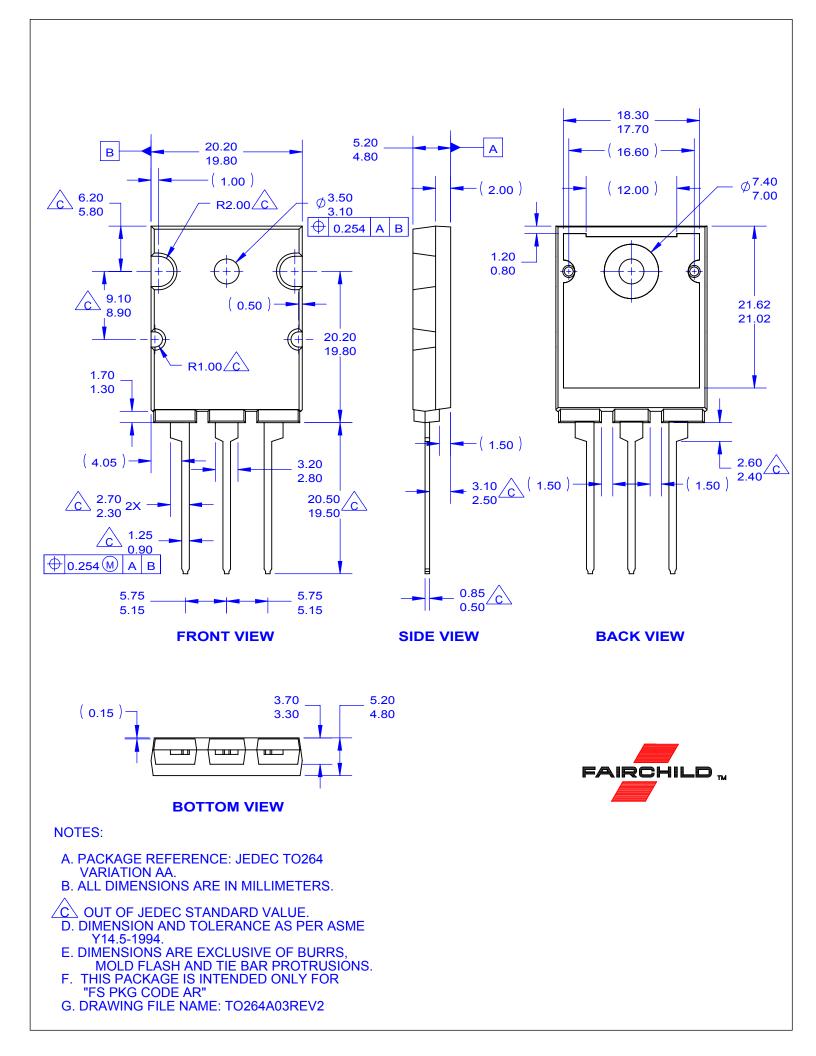


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